### Courses!

# The CALIFORNIA Tech

Failed Again!

Volume LXXVI

Pasadena, California, Friday, May 16, 1975

## **New Dean Gives** Own Opinions

by G. Simay

Picture a man who chaired a biology department, serves on numerous advisory committees and editorial boards, belongs to the President's Cancer Panel, engages in community affairs, writes textbooks and does research. How does such a human whirlwind of energy make you feel calm and assured? We aren't sure, but after interviewing Biology Professor Ray Owen, we do know it's possible. Between taking bites of someone's birthday cake, we discussed his upcoming positions as Vice President for Student Affairs and Dean of Students, effective this September:

O: Just what does your new position (Vice President for Student Affairs and Dean of Students) entail?

A: I regard the operational part of my title to be Dean of Students. My duties in this regard are strictly comparable to Jim Morgan's I want to promóte an atmosphere that encourages new ideas. The last thing I want to be is a distant administrator. For me, the attitudes to cultivate are responsiveness, participation and mutual respect. I don't want to see only the students in difficulty or the students winning awards. Any student should feel free to come and talk with me. Q: Will your other activities make life as Dean rather difficult for you?

A: I'm cutting out my nationallevel commitments. And I'll be

getting off of the cancer panel in February 1976. In recent years, I have been rather removed from student matters, but now I'm anxious to get more involved with students again.

#### P/F, Electives and Women

Q: You had been previously involved with students beyond your teaching, then?

A: Oh, yes. In 1966, I was chairing the Ad Hoc Committee on the Freshman year. Some very important things were decided. We urged the admission of women, Pass-Fail grading and freshman electives. At that time freshmen had to take a much more rigid schedule.

Q: Well, girls have sure made a difference all right.

A: Certainly! Before women were admitted, students lived in a monastic environment. Many of them had unrealistic impressions of what girls were like. All of that has changed now, and for the better.

O: Unfortunately, it seems the number of admitted women who choose to come here has dropped from 30 to 20 over the past few

A: It is regrettable. We need to recruit women to reverse this pattern. We need to engage in some fall recruiting activity like setting up Watson-like lectures in arrangement with alumni.

More Interest in Biology

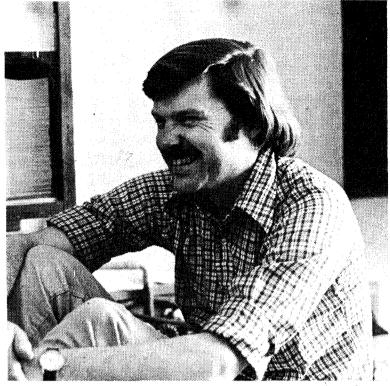
Q: Do you think Techers have changed very much over the vears?

Continued on Page Two

### Well, You See, Its Like This!



DR, H. P. LOVECRAFT'S Magical Medicine Show held Techers spellbound at Photo by G. Bone the noon show sponsored by the Caltech Y last Friday.



PROFESSOR WILLIAM WOOD is the second of the three Caltech Guggenheim fellows to be interviewed by the Tech. Charity?

# Wood's $\mathbf{Work}$

by Ed Bielecki

To Professor William Wood, of the biology department, his Guggenheim fellowship means a chance to look at viruses, worms, and snow. In his work, which helped earn him the fellowship, and spanned ten years, Professor Wood has been intimately connected with a type of virus known as the T4 bacteriophage(bacteria eater). This virus has the unfortunate, for it, ability to let the defences of its host block its development at several different stages.

Continued on Page Three

### **Watson Lectures Finish**

Is developing the world investment or charity? Economics Professor Robert Oliver explored several facets of this question in the last Watson Lecture of the spring series.

Slides of Third World countries opened Oliver's talk revealing scenes of dismal poverty and relative affluence. Then Oliver invited his audience to imagine they could control the economic development of the entire world, warts and all. Further, they would be motivated by "genuine economic investment" and not a desire to alter the country's politics.

Should they invest only in those areas offering the highest rate of return? The history of investments made by Europeans in the 19th century suggest the best countries are "those which clearly possessed the requisites of and were organized for selfsustained economic growth." Moreover, "the areas of the world which did not develop were primitive or were ruled by colonial powers or both."

#### Dynamic Development

However, the rest of Oliver's lecture pointed out the complexities of making investments solely on the principles of highest rate of return. "Development is a very dynamic process, one which is not altogether predictable. The notion that the rate of return is inevitably the proper indicator of how much. and where, new investment should occur is part of a static efficiency model with factors of production and production functions known. "Thus, deciding whether or not presently poor Third World countries will become promising sites for investments is beyond the predictive powers of economics.'

So Oliver again turns to his original question, especially relevant in our time of recession: Can we say our efforts to develop the world are investment or are they really charity? Quoting a "passage from 19th century literature", Oliver suggests that an optimistic, longterm view of the world will view our efforts as investment:

"Scrooge was a good classical economist, and while economists as people are probably no more and no less charitable than others, their dismal predictions for the less-developed world are frequently Scrooge-like. But if man can succeed in controlling the expansion of his own kind, and if the tools and resources with which he works can be increased in low as well as high per capita income areas, efforts to develop the world will turn out to have been investment on balance rather than charity. Should such a happy result be achieved it is likely that international civil servants such as those who labor in the World Bank will have played a significant role, and Americans can be proud of the part they played in fostering international economic cooperation both from the point of view of conceiving and of implementing institutions committed to that objective.

#### **News Briefs**

### North vs. South at Gym

There will be a women's volleyball game (North vs. South Houses) on Wednesday, May 28 at 4 p.m. in the gym. All those interested, please come to practices on Tuesday and/or Thursday nights from 9-10:30 in the gym.

Book

Binge!

For those of you who are avid bibliomaniacs, there will be a fantastic book sale at the Altadena Library this Saturday. Thousands of books, new and old, and of all subjects, will be sold-at bargain prices. It will take place from 9 a.m. to 5 p.m. Saturday, May 17, at 600 E. Mariposa, Altadena.

Shots

Available

Any Caltech student, employee, or faculty member planning to travel overseas in the near future should contact the Young Health Center concerning immunization shots. A nurse at the center can inform you of which shots are needed for which countries. Booster shots for tetanus are advised. Medicine is also available for such common overseas ills as dysentery. Be sure and stop in at the Health Center before leaving.

Money

Available

Applications for the NROTC Navy-Marine Scholarship Program are now being accepted. This program offers financial aid for four years in college. The Navy pays tuition and educational fees,

Continued on Page Three

### **BOC States Policy on Entry**

Recently, the Board of Control has become concerned about the problem of unauthorized entry. Most students realize that under the Honor System every member of the Caltech community has the right to undisturbed privacy. Some students have not been exhibiting the necessary degree of thoughtfulness and concern to assure this, however. The majority of violations which result are not done with conscious or malicious intent; they are done with no intent. That is to say, they are the result of thoughtlessness or ignorance. While these two may make the actions of the individual involved understandable, they in no way excuse him from his actions. As stated in the Honor System booklet, "A (student) who carelessly undertakes a questionable action, academic or otherwise, does so at the risk of violating the Honor System." In other words, the Honor System requires responsible and considered behavior from the students.

This has a few obvious and immediate consequences with re-

gard to entering rooms. (1) Before entering a room, an individual is responsible for ascertaining whether or not it is private. (2) If it is private, the individual is responsible for obtaining permission to enter from a person with authority over the matter. Finally, (3) an individual uncertain whether an area is private or not, or uncertain whether he has consent to enter an area, simply should not enter it, i.e., if in doubt, don't.

There are a few other points which students may be ignorant of. (1) The public-private distinction. Most building corridors and classrooms are public. Students' rooms, secretaries' and professors' offices are private. Less obviously private places are most labs, and some shops and storerooms. (2) Some rooms containing xerox machines, calculators, typewriters, etc., intended for student use during the day are also secretaries' offices, and so are not necessarily for public use after hours. (3) The mere fact that a door has no name on it, or is otherwise. (4)

a greater concern for the social

relevance of their work than

their counterparts in the 50s.

More students seem to have a

greater social self-confidence.

And more students seem to be

interested in biology. I think

there has been a nationwide

change in student character, and

Q: In view of the recent

problems with Millikan Library,

what is your opinion of the

A: The Honor System is a

precious part of the Institute. It

makes all the difference in the

world, and it's very largely in the

hands of the students. But there

is the problem of how to keep

the Honor System alive in

contexts where there is lots of

real world involvement. This

could be the difficulty behind

the library's missing books and

journals. I think it's unwise to

put too great a burden on the

Honor System and its en-

forcement. As the Institute gets

larger, there will be more of a

Honor System?

Techers have participated in it.

If one has to turn in a paper to a locked office, one may simply slip it in under the door. (As obvious as this may seem, other modes of attack have been used by students.) (5) A student is still responsible under the Honor System if he enters a room on the basis of false or misleading information obtained from a person without authority in the matter. For example, suppose a student without experience in such matters desires to enter Professor X's office. He asks an upperclassman about it. The upperclassman says yes, and the other does not inquire upon what authority the reply is given. If the student enters the office, he is still liable for his actions and may be committing an Honor System violation. It is hoped that with these clarifications of one's responsibilities under the Honor System, the community will have less cause for concern over the question of unauthorized entry.

> For the Board, James Dudziak Blacker House Rep.

temptation to rulemaking. We need to resist this as much as possible.

Q:What about the Student Health Center?

A: I consider the Student Health Center to be one of the prime problems on this campus. One of the problems is no doubt fiscal in nature. My son is a student health physician and he points out that schools our size do not usually have a health center.

Q: We understand that directly beneath your position is Master of Student Houses (Jim Mayer) and Director of Student Relations (Lyman Bonner). We imagine the MOSH duties will remain about the same, but what about the Director of Student Relations?

A Lyman Bonner is an experienced executive officer. I regard his office as an adjunct to mine. as opposed to an administrative layer between me and other people.

Q: Could you sum up for us your approach to your new job?

### CALTECH FORUM

# Fred's

Please don't.

-Madame R

### Prefrosh Thanks

This is an open letter of thanks to all of the undergraduate students who were so helpful to the Admissions Office in April by housing and guiding

prospective freshmen when these students were visiting the campus. Under the hard-working leadership of Jim Backus, volunteers were organized to host some 24 admitted high school students who were considering Caltech but who also had offers of admission from other fine colleges. Of these students, 19 have accepted our offers of admission and will be with us in the Fall. This is an excellent response and I thank you all.

Sincerely,

all who attend.

Stirling L. Huntley Director of Admissions

## High BP Program

High blood pressure-sometimes called "the silent killer" because many people have it and don't know it-is the subject of a health program at Pasadena Red Cross on Thursday, May 15, 1975-from 2 to 3 p.m. at the Pasadena Chapter House, 430 Madeline

The program, sponsored by Red Cross and presented by the High Blood Pressure Coordinating Council, features a lecture by Health Administrator Naomi Serotoff, M.P.H., director of the High Blood Pressure Coordinating Council of Los Angeles, on the effects of high blood pressure, preventine measures and treatment.

A: Well, I'd like to say again I want to see all students, not just the desperate ones. A dean has to get on the beaten path somehow My going to frosh camp is a first step. Maybe I could use a student advisory committee. At least I want a casual drop-in kind of arrangement. My personality fits best in small groups and intimate conversation, as opposed to large noisy crowds. I remember one student commenting that the administration had been giving the students 'too many surprises'. I want to cut down on the number of surprises.

A film on high blood pressure

There is no charge for this program. To make a reservation, call the Red Cross in Pasadena, 799-0841, Ext. 67.

will be shown, and free blood

pressure readings will be given to

High blood pressure takes a heavy toll of Americans. It can lead to heart attacks and strokes. But it can be prevented, and it can be treated and kept under control. Red Cross is giving Pasadena area residents this opportunity to find out whether they have high blood pressure, and what to do about it.

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### **Owens**

#### Continued from Page One

A: Girls, of course, have provided the most dramatic change. Besides that, more students have

### Undergrad Awards

Several undergraduates were honored last Sunday night at a Mathematics Awards Banquet.

James Shearer and Eric Williams each received the E. T. Bell Undergraduate Mathematics Research Prize for outstanding research in Mathematics. Shearer, a junior math major, wrote a paper in combinatorial analysis entitled "Maximum Length of Partial Transversals." Williams, a senior math major, submitted a paper in group theory entitled 'A Character-free Proof of the Wielandt-Kegel Theorem."

The Morgan Ward Prize was

Continued on Page Six

### THE ASCIT FRIDAY NIGHT MOVIE

### M\*A\*S\*H

7:30 p.m. & 9:30 p.m. in Baxter Lecture Hall

Admission: 50c—ASCIT members and their guests; \$1.00—anyone else NEXT WEEK, The Good, the Bad, and the Ugly

### FRANKLY SPEAKING....by phil frank



### **Backus States Plan**

When I was first elected I was asked what my plans were as ASCIT President. I said in rather vague tones that I would like to see ASCIT do something like build its own housing complex, although I acknowledged that it was a rather farfetched idea. I no longer feel that it is so farfetched.

In today's (5-8-75) L.A. Times there was an article about the students at Cal State L.A. who in 1964 voted to build their own student union. Today it is done and paid for, financed primarily by student dues of from five to ten dollars a term over the past ten years, with the help of donations from alumni. I feel something of the same could be done here.

It would mean sacrificing ASCIT funding of just about everything, and at best about ten thousand dollars a year could be socked away, but with the help of some fund raising drives it is

entirely within the realm of practicality.

In order to implement the plan would require a two-thirds vote of the student body. This would enable ASCIT to establish a trust under the joint administration of ASCIT and a bank so that the money could be used only for the purchase or construction of a new improved student union, either for housing or recreation. I personally prefer the purchase or consturction of a housing annex, which could provide low-cost housing and revenues for upkeep and improvement.

Such a program requires solid support from people who generally will not reap the benefits of such an action, but I for one, have the time and energy, and the will, to build a better future.

Talk to your BOD reps and tell them how you feel.

Jim Backus

#### Wood

#### Continued from Page One

Through working with these stunted viruses, Professor Wood and his colleagues were able to trace out a number of the steps in the production of the T4 virus. These steps were then shown to involve protein interactions occuring in an assembly line manner. Professor Wood's work has also uncovered what may be a new type of catalytic

This work has important implications to similar processes in other animals, and Professor Wood plans to spend his year away from Tech, paid for in part by the Guggenheim tellowship, refining his techniques and applying them to higher animals.

One of these higher animals is the nematode(the worm known to all who attended frosh camp this year), whose muscles will Last come under scrutiny. This work Jazz will take place at the University of Colorado at Boulder, where Professor Wood can make use of a specialized biology department, and the surrounding ski areas,

Professor Wood received his A.B. in chemistry, from Harvard in 1959. After completing his PhD. work at Stanford in 1963, he was a post doctoral fellow at the University of Geneva, Department of Biophysics, for over a year. It was shortly after coming to Tech in 1965 that Professor Wood began investigating the T4 virus, and in 1972 he was elected to the National Academy of Sciences.

WHAT IS THE JOY OF SAX

222

FIND OUT: Baxter Lect. Hall 8pm FREE Tues., May 20

CALTECH JAZZ BAND CONCERT

, News Briefs

#### Continued from Page One

books, uniforms and \$100 per month subsistence allowance. The purpose of the program is to provide civilian-educated career officers to serve the American people in the U.S. Navy and Marine Corps. Upon successfully completing summer training periods, students are commissioned officers in the regular Navy or Marine Corps.

The 1976 NROTC bulletins containing the eligibility requirements and applications are available from the Admissions Office, 109 Dabney Hall, or from the Commander, Navy Recruiting Command (Code 314), 4015 Wilson Blvd., Arlington, Virginia 22203, or from the local recruiting offices.

Tuesday, May 20 at 8:00 p.m., the Caltech Jazz Band will give its final concert of the year in Baxter Lecture Hall. The eighteen piece group will re-hash some of this year's better charts, repeat the "Oldies but Moldies" big-band favorites of the '40's, and delve into third-stream jazz (works by Dor. Ellis) and vocals. Informal and free, as always.

#### No Experience

Applications are now being accepted for the post of sacrificial virgin to take aprt in opening ceremonies for the soon-to-be-completed Throop sits, B&G pooh-bah Xavier Ward-

Pasadena, CA. 91106

I.D. REQUIRED

#### by Alan Silverstein

Throop Hall may be gone but it will not be totally forgotten. The huge wall clock from its west face has been reconditioned by the members of Ricketts House, and was presented to the Board of Trustees last Monday, and will soon be installed in working order somewhere on campus as a memorial to the Institute's first building.

Before Throop was demolished because of earthquake damage in 1972, after having stood between Dabney Hall and Kellogg Labs for 62 years, permission was given for both of the clocks on the building to be removed by students. (The other one wound up in Lloyd.) Two Scurves took down the master clock, which drove the one on the east face, with the intention of putting it up in Ricketts. This fell through for several reasons.

law announced Wednesday. Newly-named assistant to the director of pools and lakes, south campus, Wardlaw is said to have been instrumental in setting the date for the gala events.

"There is only sufficient funding for seven candidates," Mr. Wardlaw also noted, "but we expect many times that number of qualified applicants, virginity being the tradition that it is here at Tech".

Last Math

There will be one more meeting of the math club this coming Tuesday, May 20 at 7:30 p.m. in the Lounge, 3rd floor Sloan. Dr. Stampfli will talk on "Celestial Mechanics: Past and Present." We shall also elect new officers for next year. Refreshments will be served and everyone interested is welcome to attend.

and the parts of the clock made their way into an attic for two

Throop Clock to Return

Interest in the clock revived during second term, and work was begun on reconditioning it and remounting it on a new face, this time for the purpose of donating it to the Institute. Three months later it was finished, just in time to make a presentation to the Trustees' quarter-annual meeting on May 12. They liked the clock and voted to fund the project of putting it up on campus, along with a commemorative plaque. A possible site appears to be the

north wall of Kellogg, overlooking Throop Site.

The new face of the clock is a five-by-five-foot octagon of treated wood, given a yellowbrown stucco finish. The minute hand has a two-foot radius. which means that its motion is visible at the tip. Each of the Gothic-style Roman numerals, from the original clock, are five inches high and are set individually into the face.

The entire clock will be bolted to a wall and then given weather protection. It should be put up in one to three months.

# School Students **Build Robot**

by Al Drehman

Not too many techers are familiar with the Saturday program here at Tech. Most seem to have noticed the mobs of high school students who appear every Saturday, and some even know that these mobs are being instructed in something-or-other, but how many techers would suspect these high school students are doing something as advanced as building a robot? And doing a good job of it, too. (Watch out, Steve Austin!)

Under the direction of senior Jeff Eriksen, a small group of high school students have almost completed a robot which resembles a box on wheels more than anything else. It's sole purpose is to hunt down illuminated cubes and identify a particular one by its particular light pattern. While this may not be the state-ofthe-art in cybernetics, it is a rather impressive accomplishment

for a group of eighth through twelfth grade students, considering that the robot itself costs less than forty dollars. According to Jeff, one senior in his group designed the bulk of the electronics in the robot.

Reflecting back on this year's program, Jeff remarked that "For a Caltech student to participate (in the program) is a very worthwhile thing . . . especially if you are ever going to be teaching."

While Jeff was teaching cybernetics, other classes were being taught in subjects such as math, physics, computer science, and electronics. This weekend finishes the program for this year, so we will be rid of all those high school students. Perhaps not all of them though, for after all, in its six years of existence the program contributed twenty freshmen to Tech.

### Real World Strikes Back

by Dave Peisner

(Ed. Note: Peisner is a former undergrad and California Tech Business Mangler. This is probably the first in a series of notes concerning what it's like as a medical school student, with maybe even a few insights useful to those of you about to enter the theoretically real world.)

Once again I am at the beginning of the four year cycle, but this time I'm trolling at a public institution. I'm in med school.

As the summer ended, rumors of med school tortures sounded more convincing than the usual

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gossip in Flora's office. The chances of a student getting in again after failure are zilch. Yet things weren't that bad.

The orientation letters convinced me ("Hi! This is welcome letter No. 2"). Many forms came with the letters and most wanted the same vital information over and over again. I felt like writing Transylvania for my address, but freshmen don't do that.

This brings up another phenomenon. In graduate school, new students are all "grad students" but in med school, we are "freshmen" all over again.

Throughout all of the letters, bureaucracy was at its finest. The registrar's office strongly suggested that I report for regis-

tration only at my assigned time and date-but they didn't tell me when that was. The student affairs office extolled the virtues of a parking card to avoid the delay of plunking 75 cents (!!!) into the parking gate-but they didn't mention how one obtained this wonderful magnetic card. I avoid the problem. I park on the

One matriculation procedure I had to relive was a physical. The health center at Wayne State University was a real trip. Stuck on the fifth floor of one of the main classroom buildings, it consists of about 20 small cubbyhole offices, each with its own gray-haired bespectacled Continued on Page Six

### DON'T THROW IT AWAY!

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> > P.S. Would we kid you?



The audience at the Ice House this week nearly got livened into hysteria by the three acts appearing there. Maffitt and Davies, a singing and guitar duo of insufficient renown for their quality, are the headliners. They do some very good guitar work, and are accompanied by David Jackson on one of the thickest accoustical bass guitars I've ever seen. The music of Maffitt and Davies ranges from the semiserious "Just Like a Woman" all the way to the ludicrous "Jonathon Cook." They do several instrumentals (announcing the titles of almost none, unfortunately) as well as a few semi-traditional songs ("Rose of the Mountain", "Have a Whiff on

Me", and "Danny Boy") with their own versions. Some songs they make fun of, and others they do straight in the realization that the song is ridiculous enough as is. They do a "Blues Medley" which turns out to include "Blue Shadows On The Trail," "Beyond the Blue Horizon" and "Blue Skies". They sing their songs about "Cigarettes" and "Forest Lawn", subjects that easily lend themselves to humor. They do old songs where they've changed the words and music entirely, so they had to change the title too. All this as well as the kind of audience rapport that gets the people in a small club to realizing that they aren't just

watching an act like on TV, that there really is a difference in person. Clark Maffitt and Bryan Davies are professionals in the entertainment field, a very entertaining duo. I hope you get the chance to see them on this time through, if for no other reason than to hear the conversations on stage while they tune up (one of the best parts).

Nancy Wayne opened the show, and this lively lady was overwhelming. She is a rising young star in the Country & Western field, but don't let that stop you from enjoying her fine songwriting and singing. (I admit it, I'm not much of a C&W fan.) Her band covered and overflowed the stage (the electric pianist stood off the side of the stage for the whole set) with a six-piece backup group including three different types of guitars, but the sound they produced was superior to the traditional Buck-Owensish Hee-Haw kind of music which I find so annoying. Nancy Wayne doesn't have an affected nasal twang or drawl, she just

sings, and very well. I have not yet listened to her two albums ("Cheatin' Was the Last Thing on My Mind" and "I Want to Kiss You"), but the sampling of her music presented in this show interested me. Some of the best songs in her sets were a thing called "Cold Carolina Morning (Hot Carolina Night)" and another called "Gone". This last was done again when the audience coerced her back onto the stage and asked for it again. Some of her songs are of the typical C&W genre, complete with titles and subtitles that go on for most of the first verse (i.e. "I'd Rather Live Alone With Me Than to Live Alone With You"), but these were excusable. Nancy Wayne apparently writes at least part of her music, along with her husband (guitarist and vocalist) and a third person. These songs, at least the ones so announced, were among the best in the show, especially "Cold Carolina Morning". Nancy Wayne is a very talented and very pretty young woman.

Lawrence Beezer rounded out the show with his "electric mouth". The reason for so describing it can only be experienced in person. I can only say that he does some of the most spectacular sound effects this side of a Stan Freberg radio commercial. His material is not as static as that of some comics I've seen, and so can be enjoyed even if you've seen him before. Most importantly, he has a really warped mind. This sort of thing allows him to step back and look at humanity from the outside. and find things to laugh about in our lives. Lawrence Beezer is very funny, and besides that, how many people can do an imitation of an entire marching band and get away with it?

I just looked at the schedule at the Ice House for the next few weeks, and I want to warn you to make every effort to go there either this week or next week, in particular. I have already given you the reasons for this week. Next week, the bill is:

Continued on Page Seven

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As the year winds to a so sometimes do we. close Equally so, Beckman. Let us therefore, before looking offcampus, take a last view here on campus.

Tomorrow night, culminating the festivities of Alumni Day, the Women's Glee Club [equal time is serious around here] will present the Spring Concert in Ramo at 8:00 for the ditch-day beating price of \$0.50. To round out the show, the Women have as guests the Chamber Singers, the Apollo Singers (none of whom are likely to wear the laurels of Daphne) and the Quartet. So go down on Saturday night-the Glee Clubs may finally find some equal footing.

This finishes the year for Beckman & Ramo, and the new season will not begin until October. The new season is a full and, I think, a good one. Not that I can tell from student feedback. Of all the times in

word on your preferences in programming, the only answer I've ever had was from Bonnie of Cadillac fame, and I'd love to hear from her again, too. Be that as it may, I cannot believe that you people, with all the freedom of choice you have, want merely to wait and see what turns up-and if this means you hope for rock, it'll take more efforteffort I'll still put out next year, if you want it.

Off campus the profusion, as always, provokes confusion. It seems that everything is available. Religion? J.C. Superstar is at the Shubert. Politics? Well, "Trisha's Wedding" is coming to the NuArt, but Whitmore's "Give 'Em Hell, Harry" is an alternative, and tickets are still available for the matinee on Thursday, May 29. Music? If not the Philharmonic, "Me & Bessie" is still at the Mark Taper Forum through Sunday. Sex? Surely enough. At the Children of these pages I've begged for more Paradise Speakeasy you can

enjoy a well-oiled evening watching the staging of "Ribald Classics." This socially acceptable outlet is not all that's available, however. Hold on for this one, now. On the evening of Thursday, April 10 Myron's Ballroom (1024 S. Grand, L.A.) will host a "Bondage, Leather, & Fetish Party" for which tickets are available over Mutual in advance for \$6 general admission or \$15 Special VIP section, prices higher at the door. [VIPs get to be on the whip-end of their choice?]. It's too bad I found out about this one only a week ago. However...this month's offering is on Thursday, May 29. It is called the "Straights and Swinger's Freak Ball," tickets for which are available at the Caltech Ticket Office, \$6 general admission. Go with my blessings, and

It occurs to me that Memorial Day Weekend is coming. Starship is in Long Beach Sunday the 25th, with Commander Cody, and they are in Santa Barbara Monday the 26th with Kingfish. Make a good trip of it in Isla Vista. Kingfish will be closer on May 31-June 1 at the Roxy with Beau Brummels. But then Summer is coming, and the rumors fly.

-Chris Harcourt

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*



Would you like a thousand dollars? Having caught your attention, I want to remind you that today is the deadline for the Studenski Award. This gift is not for financial aid-rather, it is an opportunity for a student in reasonable academic standing to get away for at least three months and get his head together by doing "something else" for a while. If you are interested, you should submit a proposal for use of the money to the Y office, by today.

Tomorrow, hang around; have we got a day for you. First, one of the quietest places on campus will be Winnett Lounge, where a symposium of major significance will be in progress from ten till three. Who watchdogs the government, and to what extent they should be allowed to do so? Howard Simons, managing editor of the Washington Post, and Seth Hufstedler, practicing California attorney and past president of the State Bar Associa-

tion, will be discussing that question in "The Fourth Estate: The Power of the Press." This event will include an optional buffet lunch for only \$1.75.

The rest of the campus won't be nearly so serene. Thirty-seven artists are participating in the International Arts and Crafts Bazaar, from nine till six, all over the Quad and Olive Walk. During the noon hour, we present free, live entertainment "in stereo". On the Quad there'll be a diverse variety of amateur Caltech entertainers doing a talent show. See the 1969 National Hula-Hoop champion do her thing! And, at the other end of the Olive Walk, at the Athenaeum steps, the Caltech Jazz Band will be playing classical jazz, courtesy of the Alumni Office.

Last, but not least, there'll be uncountable Techers around because tomorrow is also Alumni

Remember Dr. John Lilly ("calculate, calculate..."), who gave "The Science of Inner Reality" in Ramo back in April? He'll be the fourth in our series, "Conversations with a Scientist: Science, Values and Beliefs" this Thursday at 7:30 in the Y Lounge. As usual, admission will be limited to twenty.

The next day (Friday) our noon concert will feature Professor Wayne's Anonymous doing Continued on Page Seven

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The Fred Logs

## Hadon Returns (Again and Again)

by Fred

[Ed. note: After an interlude caused by circumstances beyond our control, we rejoin the story shortly after the disastrous lightning bolt episode. Return with us now to those thrilling days of yesteryear, when men were men, elves were elves, and giants really did walk the earth...]

That night Superelf brushed off our close brush with death. "Well, you win some, you lose some."

A moment later it looked like he might be losing one when a large fighting man entered the inn and introduced himself as Hadon's brother. News travels fast sometimes and Hadon's family had already heard of the death of the son who had sworn to become a hero. The new fighter bore Hadon's features but was younger and stronger than his brother. If he had coe for revenge, Superelf might be in trouble.

"What can we do for you?" asked Superelf.

"My name is Hadon. I've come to avenge my brother."

"But you can't be Hadon. We buried him this afternoon," I cut in. Superelf unobtrusively made sure his sword was within

"Hadon is the name that the oldest son in my family assumes when he prapares himself for heroic deeds. Now that my brother is dead, I am Hadon and I have sworn to travel with you and avenge his death."

Superelf bought a round of drinks and quickly unfolded a plan for a return to the dungeons the very next day. I unequivocally counted myself out of what looked like a foolhardy scheme.

Early the next morning they rode off while I slept until after lunch. By dinnertime they still hadn't returned and I began to wonder if they were going to. Long after sunset they finally trudged into town, so laden down with gold that the horses and mules could barely move.

I suppose I was glad to see them but mainly I felt foolish for avoiding an expedition that had obviously been quite profitable and not particularly dangerous. It didn't take much effort for Superelf to talk me into coming on a third expedition the next day. Hadon especially was flushed with victory and eager for more.

That night Father John had a vision of disaster looming in the near future. He and Golden Boy dropped out of the expedition but the rest of us decided to continue with our plans. I was beginning to have misgivings again but my ego wouldn't let me drop out this time. Getting killed seemed almost preferable to missing out on another rich adventure.

The rains were falling harder this time and lasted well into the morning. We were all unusually quiet as we made our final preparations before the descent, but the first half hour was uneventful and we began to loosen up. Two unoccupied rooms each yielded a small treasure. Emerging from the second we began to explore further down a long straight corridor. Ahead of us it started to slope upwards, possibly all the way to the surface. We had just reached this point when, looking back, I spotted a robed figure with a wand, approaching us from behind. He apparently hadn't seen us yet.

At a word the party speeded up its pace, hoping to reach the surface before we were discovered. For a minute the figure was out of sight as we started to climb the slope. Then he came into view again, closer now, and quite aware of our presence. We whirled, hoping to catch him with a spell before he could fire his own. At this distance I could tell that he was not the same magician who fired the lightning bolt at us. My own lightning bolt was still unprepared, so I began to cast my well-worn sleep spell at him.

The events of the next few seconds seemed to stretch into hours and engraved themselves on my memory. I was near the rear of the party, with only two men and the mules between me and the enemy as I turned to face him. His arm was extended towards us and he was chanting out loud as I started to throw the sleep spell. Two of mv companions hurled their spells past me but there was no effect on the enemy magician. At the same instant a ball of fire exploded behind me filling thirty feet of corridor around the front of our party. The edge of the flames scorched my right foot but fell just short of engulfing me. Another instant and my own spell was cast. The magician slumped and then fell to the floor in a deep sleep.

I limped as quickly as I could towards the body of the fallen magician. Behind me six of the eight men who had been engulfed by the magical fires were dead and Athanasius was working desperately to save one of the others. Hugh reached the

magician first and dispatched him with a quick sword thrust. I picked up the wand and went back to the remains of our party. Among the dead were Hadon and the dwarf who had once been Aaron's traveling companion.

We soon discovered that our corridor ended blindly at a cave-in. With as many of the bodies as we could carry draped over the mules, we retraced our steps to the surface at a fast walk.

The wand I'd claimed from the magician was only designed to detect metals at close range, and seemed small compensation for our losses. I counted myself lucky to be still alive.

Two nights later a new Hadon (Hadon the third, that is) presented himself at the Fiery Gronkel, this one even younger and, if possible, stronger than the last. "How many are left?" I asked myself. The new Hadon seemed just as bent on leading a heroic life (and dying a glorious death) as his brothers and I silently predicted that he would do both.

#### Math

#### Continued from Page Two

awarded to Albert Wells, a freshman, for his solution of a system of n quadratic equations in n unknowns.

Each prize consists of a cash award and a certificate. The prizes are financed by funds won by undergraduates participating in the William Lowell Putnam Competition, a national mathematics contest. Professor Gary Lorden, the team's faculty advisor, presented an award from the William Lowell Putnam Foundation to contestants David Dummit, Christopher Henley, Franklin Liang, and James Shearer for their performance in the 1974 competition.

The Mathematics Committee on Prizes judging this year's entries consisted of Professors Tom Apostol, Alexander Kechris, Hershy Kisilevsky, and David Wales.

#### Real World

#### Continued from Page Three

doctor. He looked at me for about thirty seconds and then sent me to get the required chest X-ray and TB test.

Eventually I bought my books, and if you think Feynman and Apostol are expensive, you should buy medical books. I walked into the bookstore with \$75 in my pocket and walked out with only four of the fifteen or so books I will need this year. Fifty dollars later, I bought my anatomy atlas and medical dictionary.

To round out the summer, the study skills counselor "taught" us how to study. This program consisted of three sessions where we practiced taking notes to medical lectures. Everybody took these with a grain of salt and many did not return for the final two sessions. The rest of us suckers received copies of one of last year's tests.

#### Nice Try

Someone also told me I could come during the summer and get my ID card to avoid the rush in the fall. I took advantage of this and rediscovered bureaucracy. I walked into the room to get my picture taken and identified myself as a new student. The girl did not know which color signified a student ID card so she pieked one. I found out later she was wrong, so the whole adventure was worthless. It was the procedure she used to issue the card that amazed me. She took my picture and gave me the card a minute later without requiring me to produce any identification at all. Supposedly, the guard at the main door screens out potential trespassers but it was he who pointed me towards the ID room without asking any pertinent questions such as whether or not I was a bonafide student. I guess I have an honest

Registration came on September 4 (goodbye long summers). There were long lines but only because all of the freshmen showed up at 9:00 in the morning. (There must be a

corollary of Murphy's law that goes something like, 'if registration lasts all day, then freshmen will be sure to arrive no sooner or later than ten minutes after the doors open'.) The selection of advisors was insane. Like Caltech, we are permitted to select our own, but at Wayne, this selection takes place on registration day with nothing more than a list of available doctors to choose from.

There was the usual pile of pamphlets, circulars and whatnots including a student handbook. Unfortunately, it was last year's book . . . this year's is still at the printers (sound familiar?). The book itself is similar to the little t but much less complete. The text can only speak for itself: "Children's Hospital of Michigan: The new auditorium, the beautiful facilities on the wards, and, of course, the staff make the third-year pediatrics rotation a pleasurable experience. The emergency room is a good place to see a lot of kids with a lot of different problems. By all means go on rounds with Doctor Woolley at least once-you'll never forget it. Some have said that the nurses at Children's are the prettiest in the city. See for yourself."

The freshman class this year consists of 256 new and 9 repeating students but don't let it's size fool you. It is the second largest medical class in the country. At orientation, we learned that in spite of the huge class, only one in sixteen who applied was admitted. Fortunately, class size cannot arbitrarily be changed as at Tech because laboratory space requirements dominate the whims of the deans.

So, all 265 of us filed into the main lecture hall on September 6 for orientation. Compared to my experience at Tech (the year orientation was on campus) this was excellent. Speeches were limited to three hours and presented only the essentials of the various services and features available in the school. Then we met our upperclass advisors who took us on a tour of the building and helped dispel vicious rumors.

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## Women's Glee Sings

Music for all tastes, from early Italian songs to popular show tunes, will be featured at the annual spring concert of the Women's Glee Club and other ensembles on Saturday, May 17, at 8 p.m. at Ramo Auditorium.

The Women's Glee Club, a mixed chorus of chamber singers, the all-male Apollo Singers, and a men's quartet are scheduled to perform at the concert.

The Women's Glee Club and the Chamber Singers are directed by Monica Roegler, assistant director of choral music at Caltech. The groups will be accompanied by pianist Kathleen Kong, a sophmore math major. Ms. Kong will also be the soloist in the first movement of Beethoven's Sonata in C Major, Opus 53.

Some of the songs the Women's Glee Club will perform are "Corner of the Sky" from the musical *Pippin*, "Velvet Shoes," by Randall Thompson, and "Salut Printemps," by Claude Debussy. The Chamber Singer's portions of the program will feature "I Bought Me a Cat," by Aaron Copland, "The Space Child's Mother Goose," by Martin Kalmanoff (which includes six updated nursery rhymes),and "Ecco Mormorar L'Onde,"by Claudio Monteverdi.

The Apollo Singers will perform "Laudes de Saint Antoine de Padoue," by Francis Poulenc, and the Caltech Quartet will present a musical miscellany.

All of the ensembles will join in selections from "Bye Bye Birdie,""Salvation" by Paul Tchesnokov, and the Caltech alma mater.

According to tradition, former members of the Men's and Women's Glee Clubs in the audience will be invited to come onstage and join in singing the last two selections.

Friends and alumni of the glee clubs are invited to a reception on stage immediately following the concert.

General admission is \$2, Caltech students are \$.50, and the public is cordially invited.



The Caltech Women's Glee Club will be just one of four choral groups performing at the Spring Concert tomorrow night. Photo by Floyd Clark

## Eliminating the Gap

Science and technology may have helped "to widen the gap between the rich and the wretched (nations) on this earth," despite increasing efforts to improve the technology of the developing countries, a United Nations official stated last Mon-

Rudolph A. Peterson, administrator of the UN Development Programme, told some 350 members and guests of The Associates of the California Institute of Technology at a black tie dinner in the Beverly Wilshire Hotel that:

"Science and technology resources are so heavily concentrated within the rich countries that they are almost automatically helping the rich (nations) move ahead faster than the poor. And despite a really herculean effort by the developing countries to expand their educational foundations, they cannot hope to keep pace with the rich countries."

Pointing out that there are no easy remedies, Peterson, who is a member of the Tech Baord of Trustees, emphasized that: 'The transfer of technology-as also of management skills-can no longer usefully, and equitably, touch only one select level or point in a developing country. It must carry with it a real filtering-down

> MUSIC and COMEDY

and radiating-out effect."

Technological Gap

The development of computers was cited as an example of what he called "runaway imbalances." If developing nations are to compete successfully and efficiently in international markets, they too must computerize, he pointed out, otherwise they can't compete on delivery schedules, calculate costs and report swiftly enough to suppliers and consumers.

The poor countries cry out in an "increasingly impatient voice," saying: "Slow down your part of the world or speed up the sharing of skills," he de-

"Among our 7,600 projects in more than 100 countries and territories, about 25 percent have a scientific or technological orientation," he said. "A great many more are designed to provide the planning skills, basic human resources development, and pre-investment surveys, without which science and technology cannot go to work to raise the quality of life among desperately poor peoples."

Declining U.S. Aid

Peterson also spoke about the need to equip the governments and supporting institutions of developing countries in the fields of economic and social planning.

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Expressing concern that "our own country's contribution to helping these peoples has progressively declined to one of the lowest, on a per capita basis," Peterson declared, "we have entered the age of interdependence. Let us strive with all the skill we possess . . . to pass this little spaceship on to our children in better balance than we find it today."

Frets

#### Continued from Page Four

Chuck Mitchell, L.A. Cabaret, and Bob Lind. For the benefit of the terminally dense, I shall elaborate. Bob Lind, who did "Bright Elusive Butterfly" several years ago. L.A. Cabaret is made up largely of Richmond Shepard (yes, the guy with the mime stroupe) and Geoff Edwards (the one on radio and TV). Chuck Mitchell was an established performer in Canada for quite some time before his ex-wife made it big (hint, hint). This one looks good. I may go see it twice. (Thrice?)

-Nick Smith

#### Y Events

#### Continued from Page Five

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Coming up: June 5 is the date of this year's annual Lost and Found Auction. Everything will be sold-so claim your kazoo now at the Y office, or it goes to

–Alan Silverstein

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Page Eight

Friday, May 16, 1975

### Baseball Honored

by Tom Creswell

John Dilles, Rich Gayle, and Ed Rea were honored with awards at last Wednesday night's baseball banquet as the Caltech baseball team closed out its season.

In addition to the prestigious Alumni Award, Dilles claimed the highest batting average for the team, hitting 286 on the year. Rea and Gayle were cited for "Most Hustle" and "Most Inspirational Frosh" respectively.

Although the team wound up in the cellar of the SCIAC standings (a fate common to many Caltech teams), Coach Ed Preisler in a recent interview pointed to several bright spots in the year and looks forward to improvement next year.

"We had a 20-5 win over LIFE and a 9-2 conference win against Pomona May 3 that really showed the potential of our team." Pomona had previously upset top ranking teams from Claremont-Harvey Mudd and Occidental. Preisler also commented that the beavers were able to beat L.A. Baptist twice.

Preisler pointed with pride to two errorless games against Pacific Christian and Whittier, but confessed that a sore spot with the team this year has been numerous errors due to inexperience at various positions. Nevertheless, he expects that conditioning, time, and experience will greatly improve the team's defense, and added that four or five "really good players" will be back next year. Among the players thus commended were Rich Gayle and Steve Eckman, as well as pitchers Ed Rea, Doug Roundtree, and Kevin



by Tommy Burgher

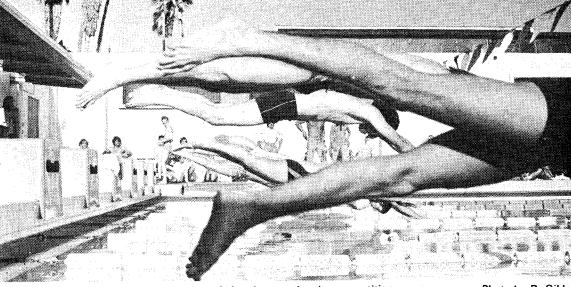
Two members of the Tech track team participated in the NAIA District Championships last Saturday. Running the six mile for the first time this year were senior Greg Griffin and sophomore Steve Kellogg. After a season of three mile races, both runners felt the effects of the extra distance and finished out of the money.

Although his 31:48 clocking and 6th place finish had to be dissappointing after copping third place last year with a 30:14, Griffin closed out an outstanding career at Caltech. Holder of school records in the two mile, three mile, six mile, and the marathon, he was still one of the top scorers on this year's track

team despite being hampered by injury. His 2:35 time in the marathon at Mission Bay earlier this year gave him a fifth place District finish, good enough to participate in the national championships. Unfortunately, funding does not exist to send him, and he feels that the lingering effects of his injury would seriously hamper him during the grueling 26 miles.

Kellogg started his race at the 3-mile pace he was accustomed to and was unable to keep with the fast pace. He did, however, gain still more experience in championship competition which will benefit him in the promising two years ahead of him.





A tangle of legs marks the start of last Friday's Interhouse swimming competition.

Photo by R. Gildner

# Fleming Cops IH Swimming

by J.R. Flem

Winning six of nine events, Fleming swam to its nth consecutive interhouse swim meet victory, defeating the nearest opponent 98-48.

In the individual races, Jim Findley of Fleming won the 100-yard Individual Medley as well as the 50-yard freestyle. Tony Tullot, Doug Mehoke, and Chris Sexton, also of Fleming, won the 50-yard freestyle, backstroke and breaststroke, respectively. Greg Beall of Page won the 50-yard butterfly, and Darb Paul Carpenter outscored all competitors in diving Thursday.

Page put together a winning 200-yard medley relay with John Stemple, Becky Hartsfield, Greg Beall, and Dave Novikoff in a time of 2:07.6. Fleming won the 200-yard freestyle relay in 1:48.0;the winning team was Jeff Poulin, Margo Robe, Doug Mehoke, and Jim Findley.

Trophy points were 56 for F1eming(274),48 for Page(302½),40 for Ricketts(133),32 and 24 for Dabney(189½) and Lloyd(148), and 12 each for Ruddock(143) and Blacker(138) who tied for sixth. The number in parentheses represents current Interhouse point totals.

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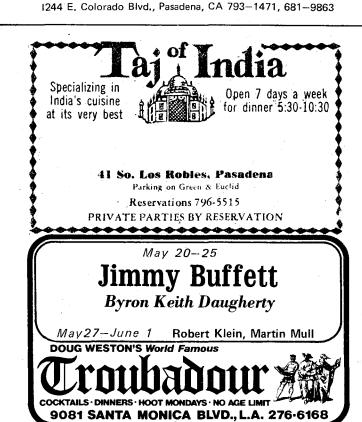
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